

FIG.1A

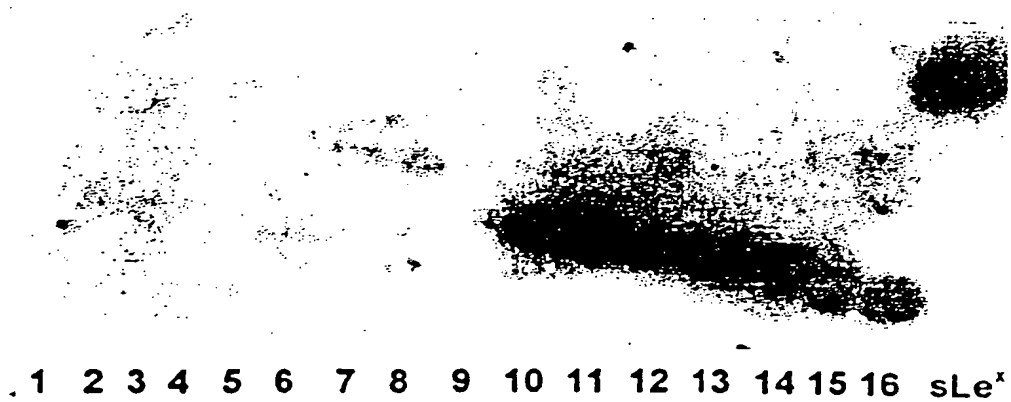


FIG.1B

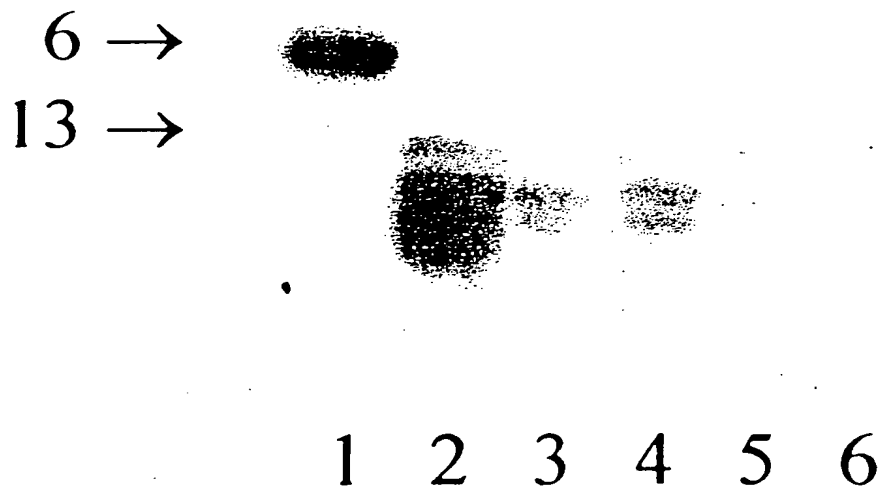


FIG.2

1 2 3 4 5 6

FIG.3A

1 2 3 4 5 6

FIG.3B

1 2 3 4 5 6

FIG.3C

1 2 3 4 5 6

FIG.3D

1 2 3 4 5 6

FIG.3E

1 2 3 4 5 6

FIG.3F

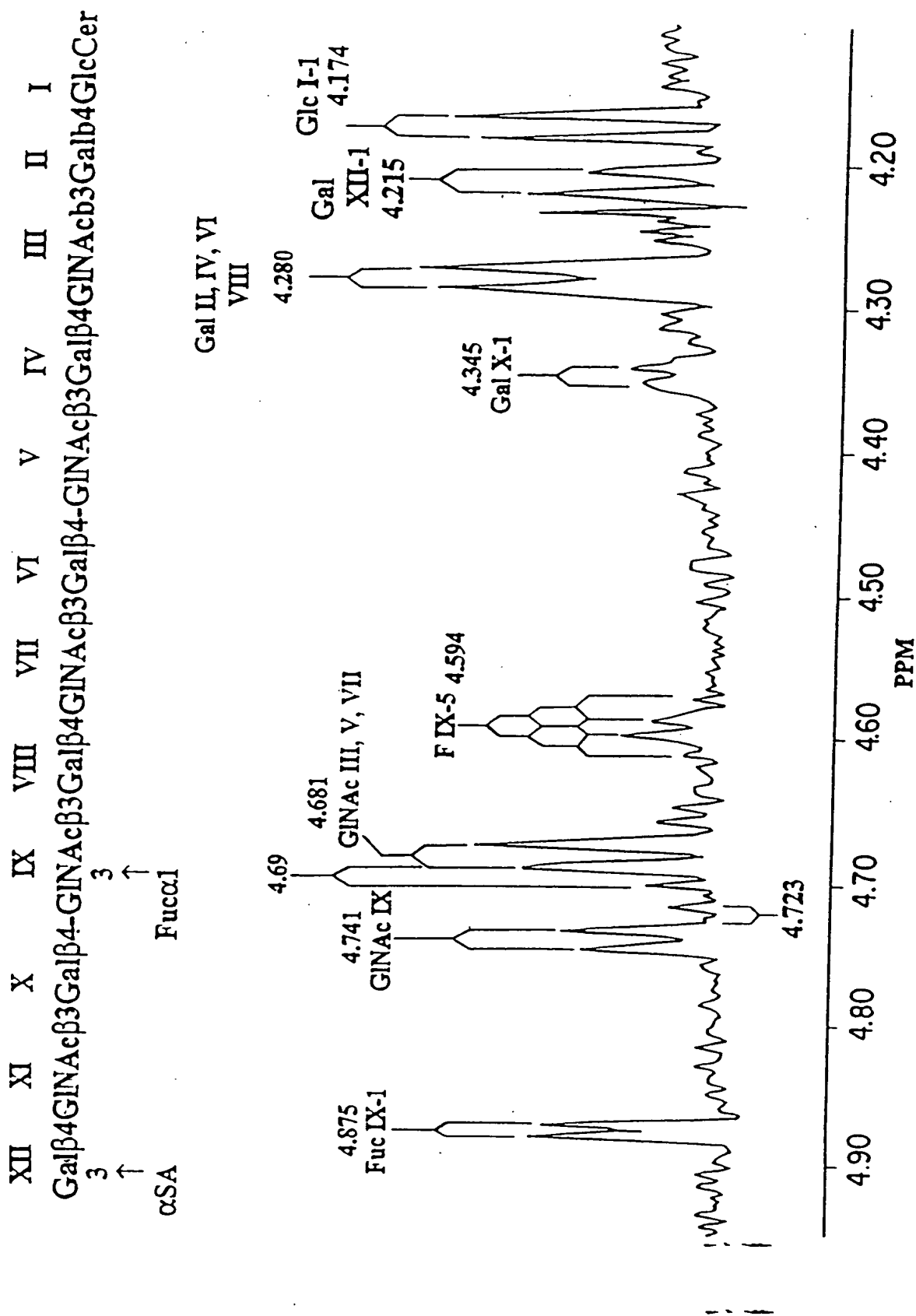
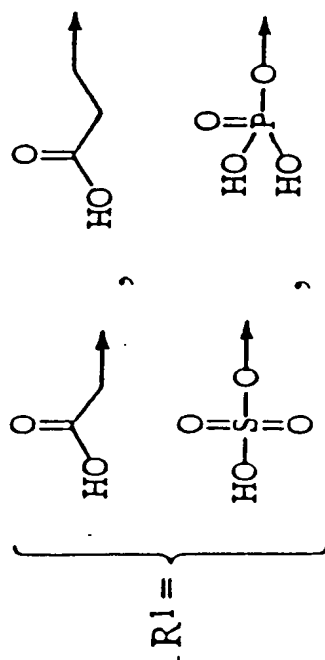
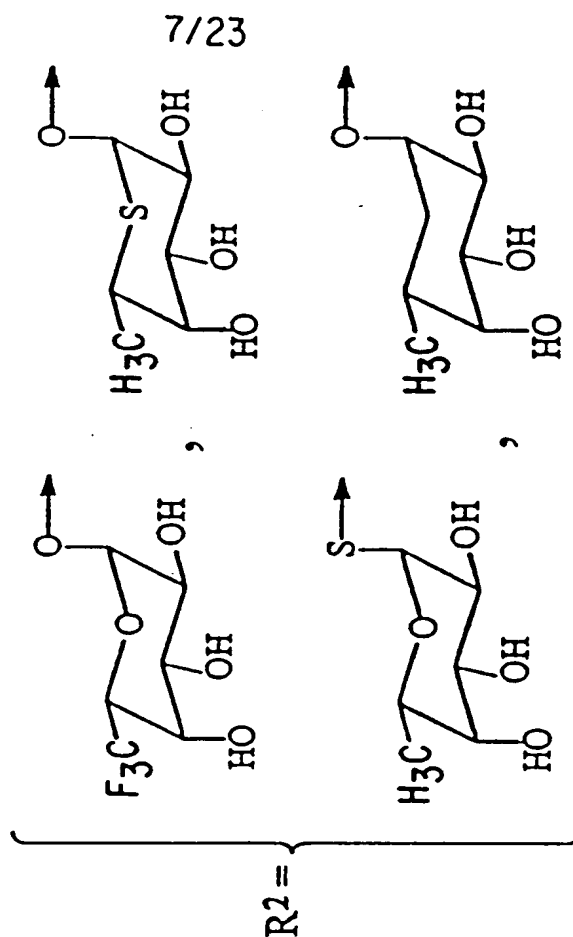
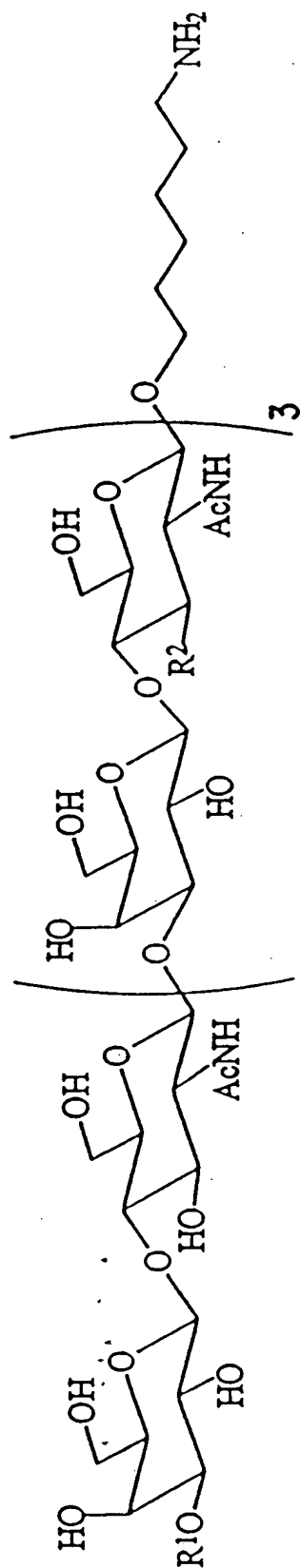


FIG. 4A



**FIG. 4B**



Myeloglycan mimetics

FIG. 5

Scheme I. Synthesis of Starting Material 4

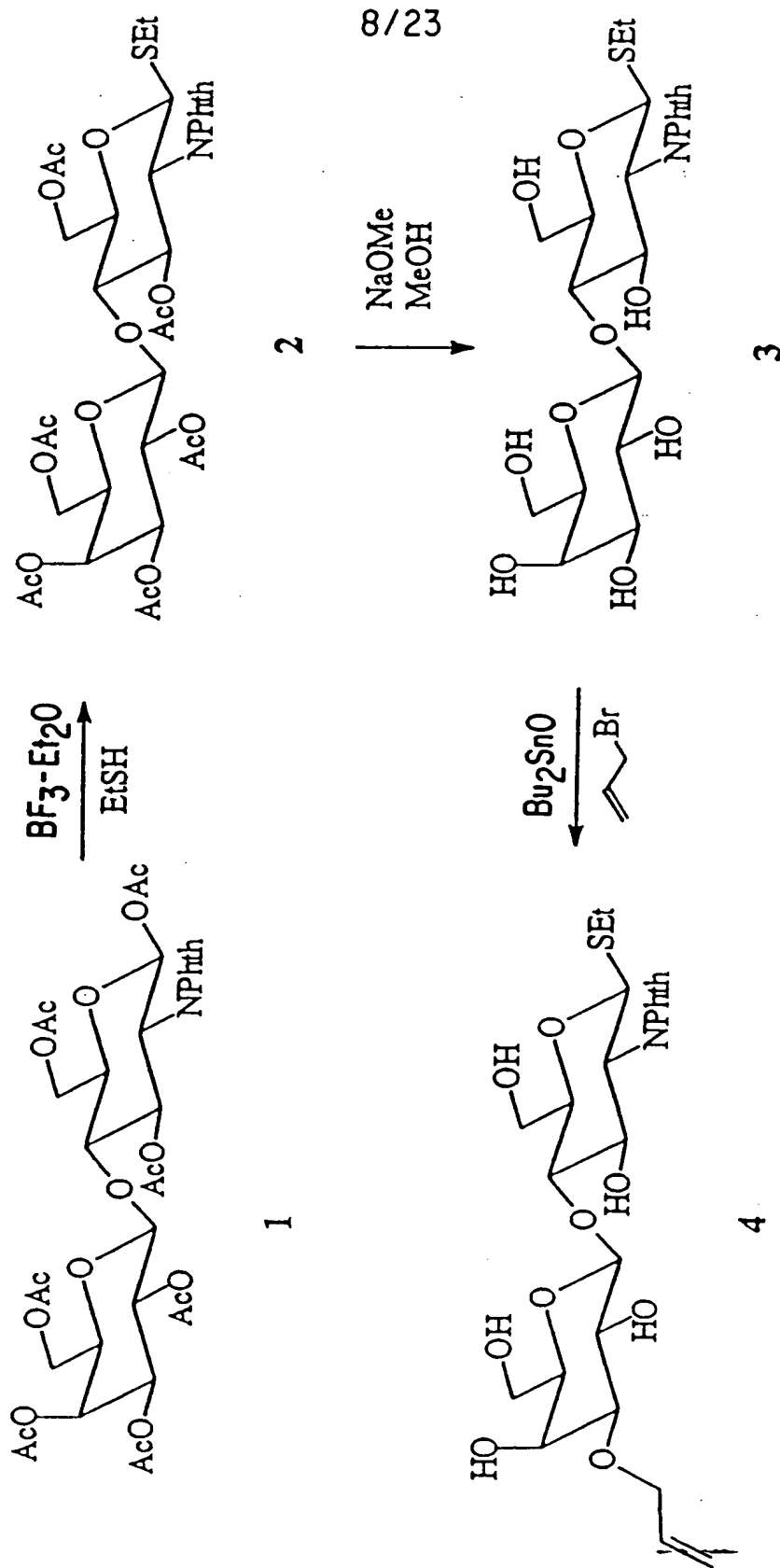


FIG. 6



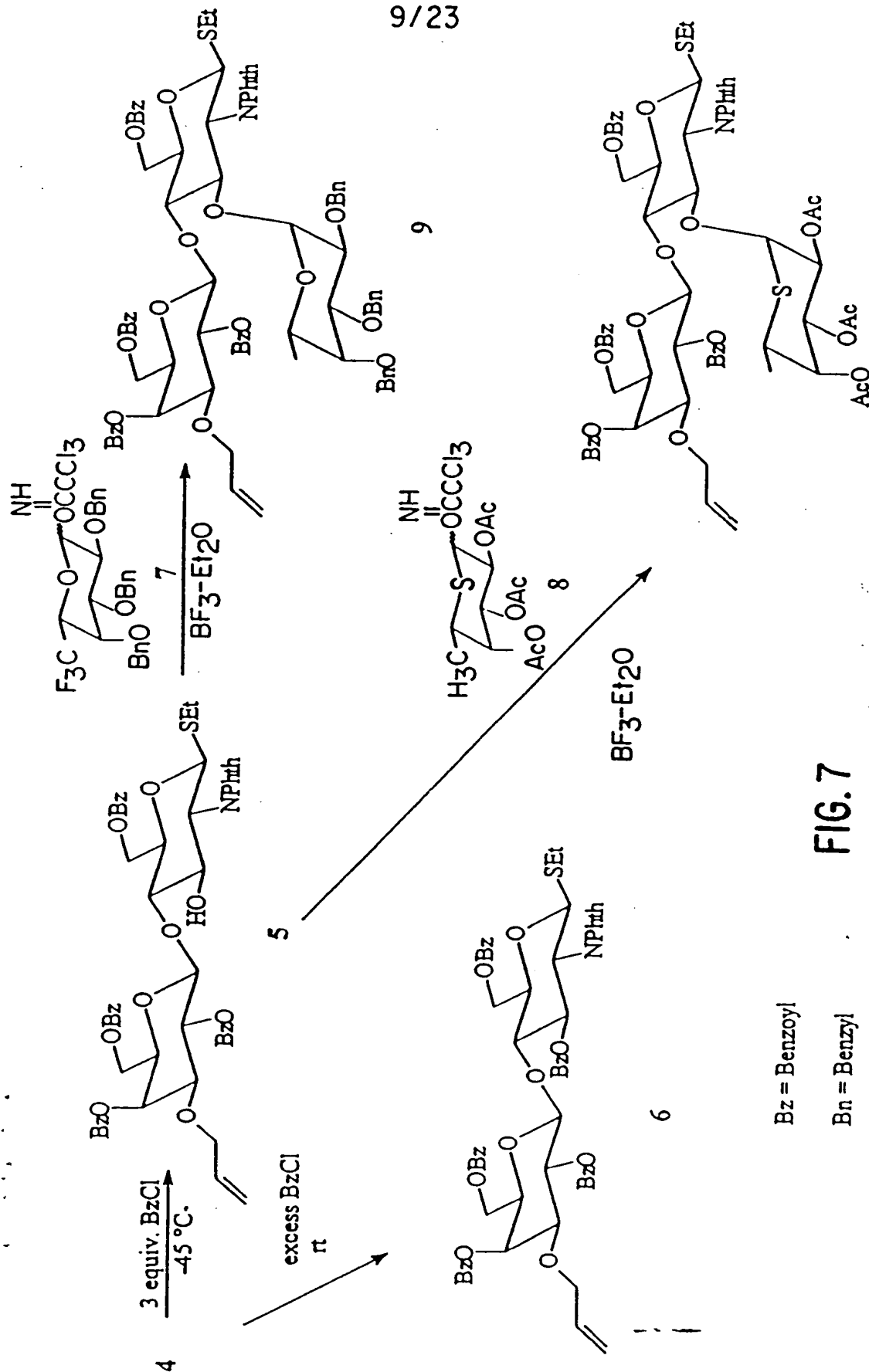
Scheme II. Synthesis of Lex Mimetics with CF<sub>3</sub>-Fuc and 5-S-Fuc

FIG. 7

Scheme III. Synthesis of Triflate 13

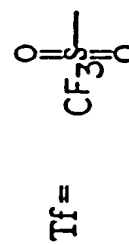
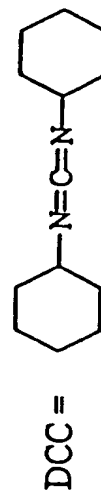
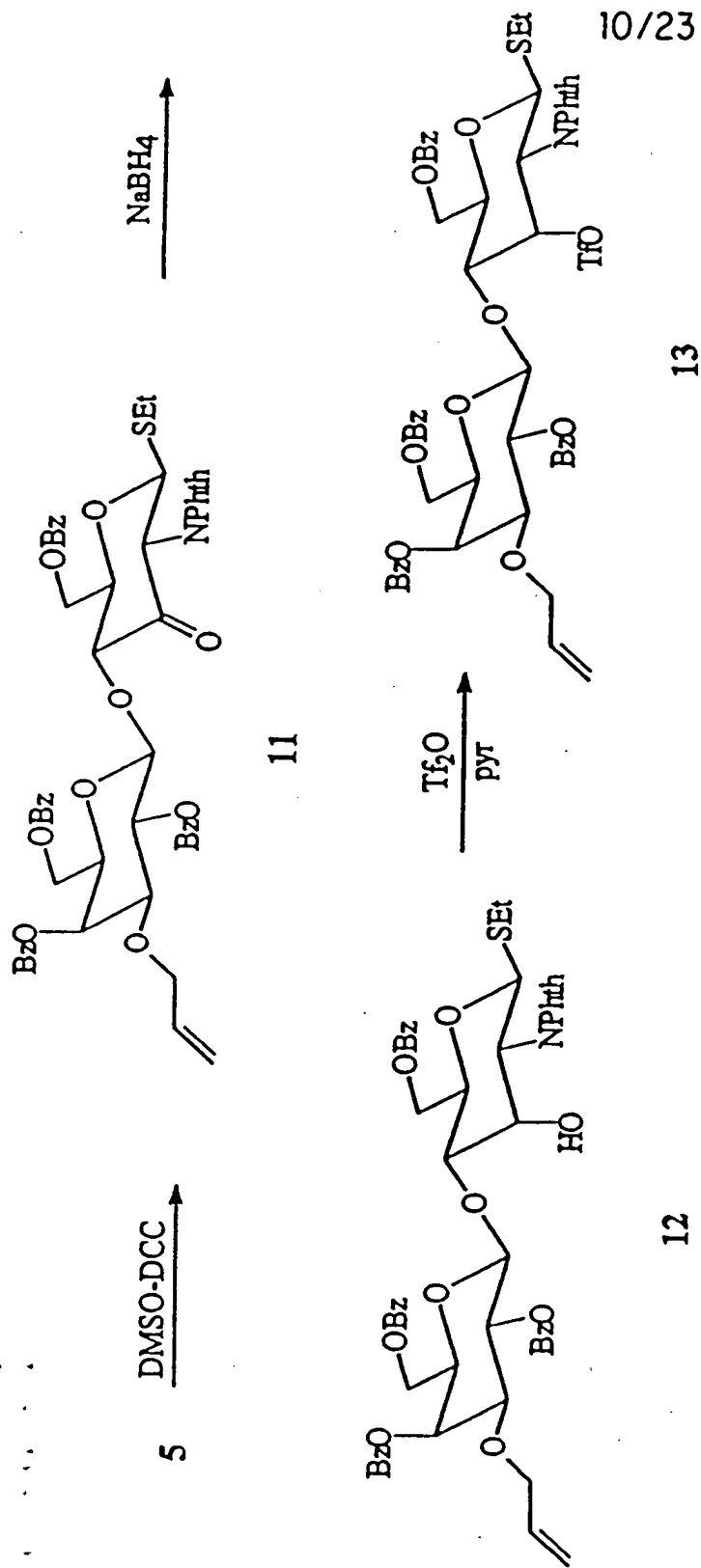


FIG. 8

Scheme IV. Synthesis of Lex Mimetics with 1-S-Fuc and C-Fuc

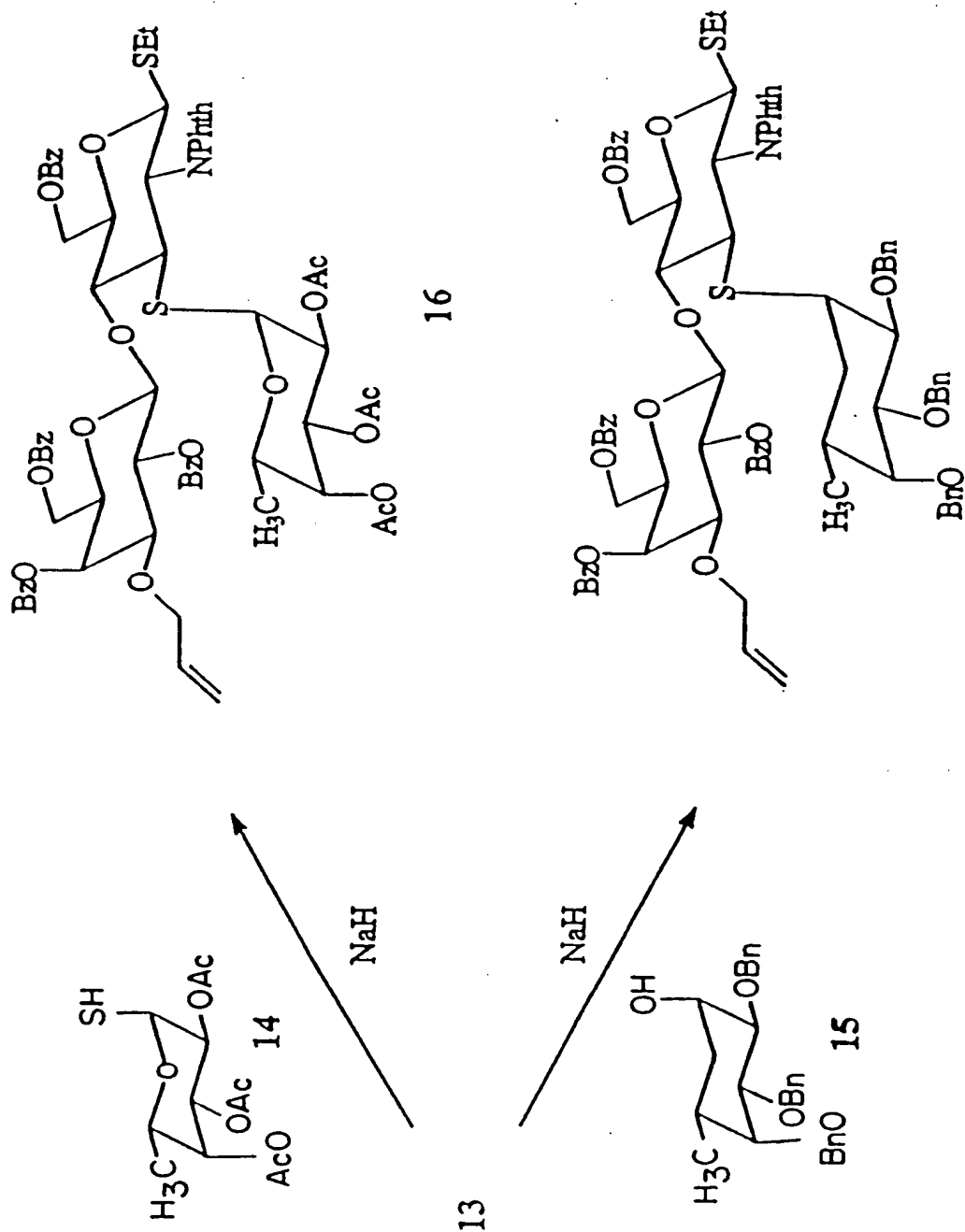
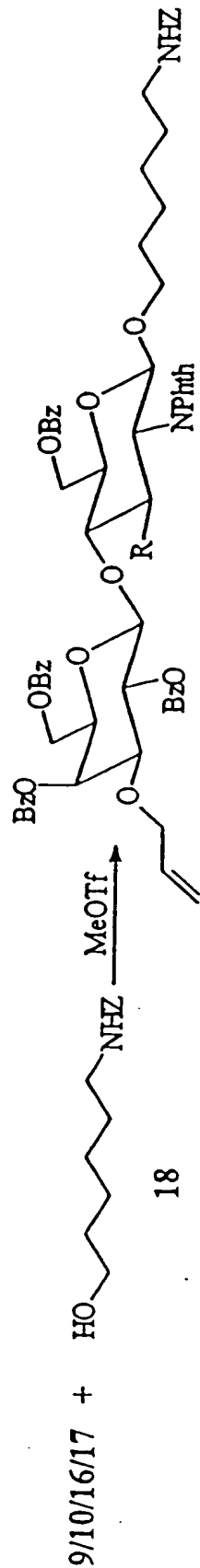
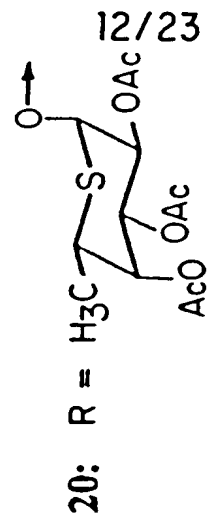
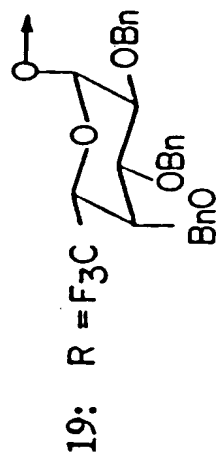


FIG. 9

Scheme V. Attachment of a Tether to L $\alpha$  Mimetics



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Z = Benzyloxycarbonyl

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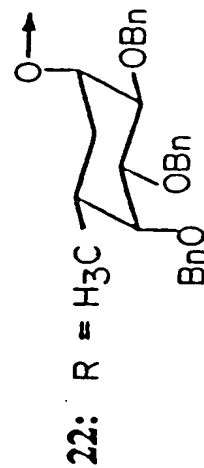
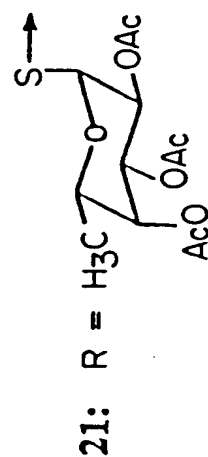
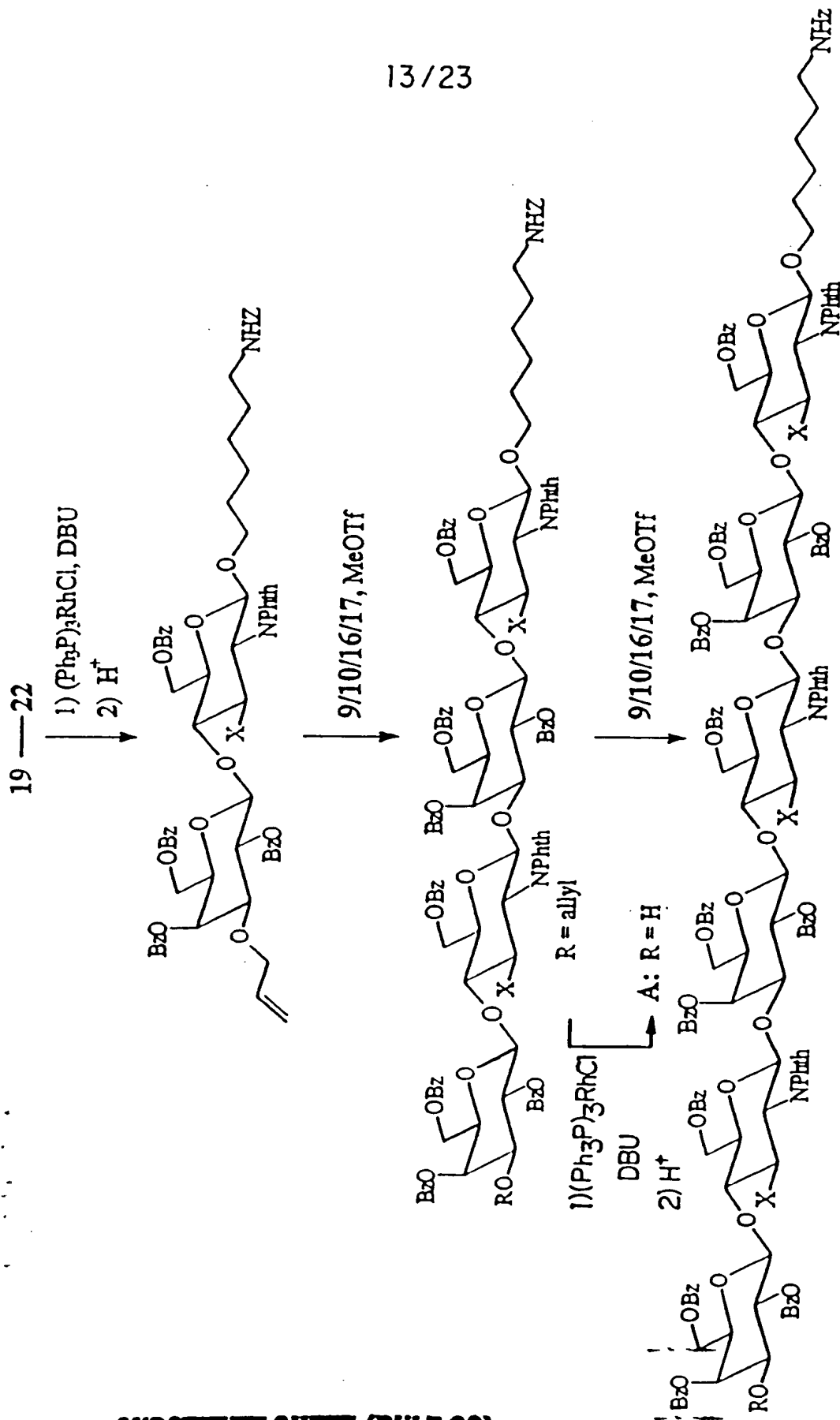
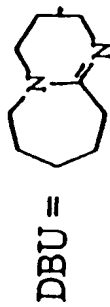
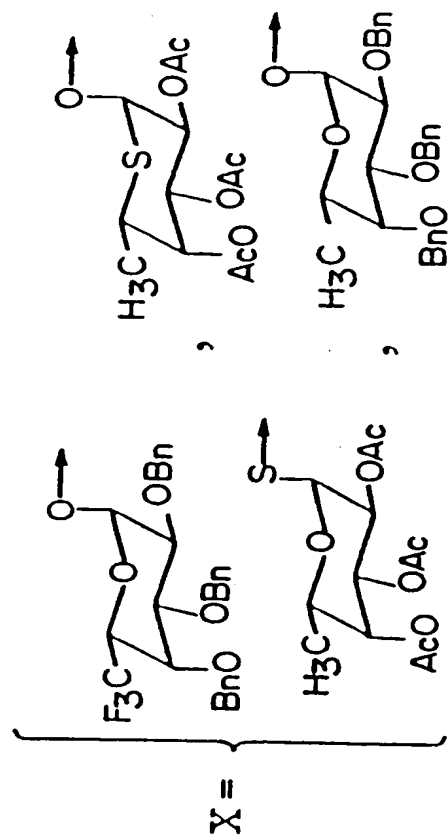


FIG.10

Scheme VI. Synthesis of Dimeric and Trimeric L $\alpha$  Mimetics

**FIG. 11A**



**FIG. 11B**

Scheme VII. Synthesis of Tetralactosamine Core

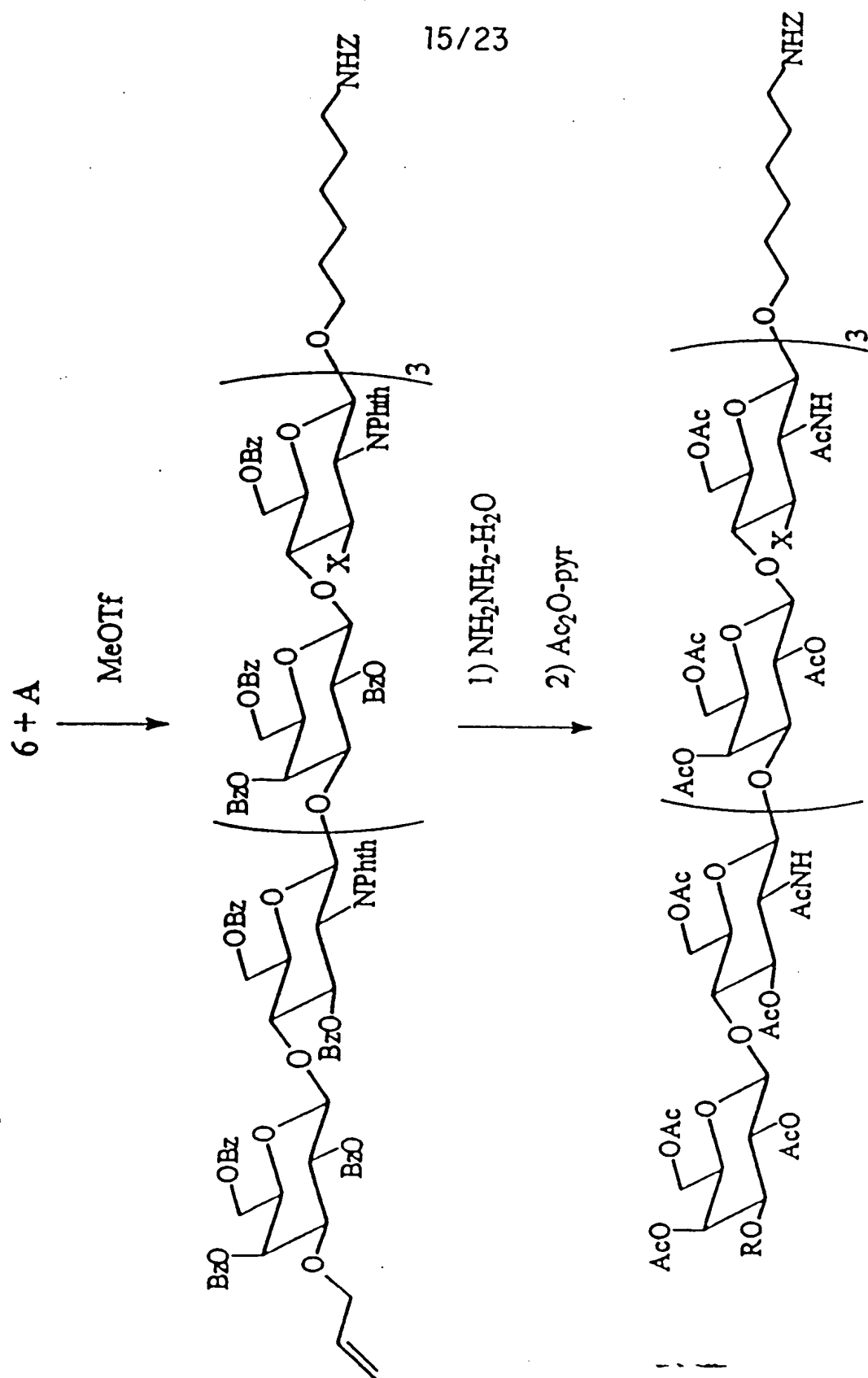


FIG.12A

1)  $(\text{Ph}_3\text{P})_3\text{RhCl}$

DBU

2)  $\text{H}^+$

B: R = allyl

C: R = H

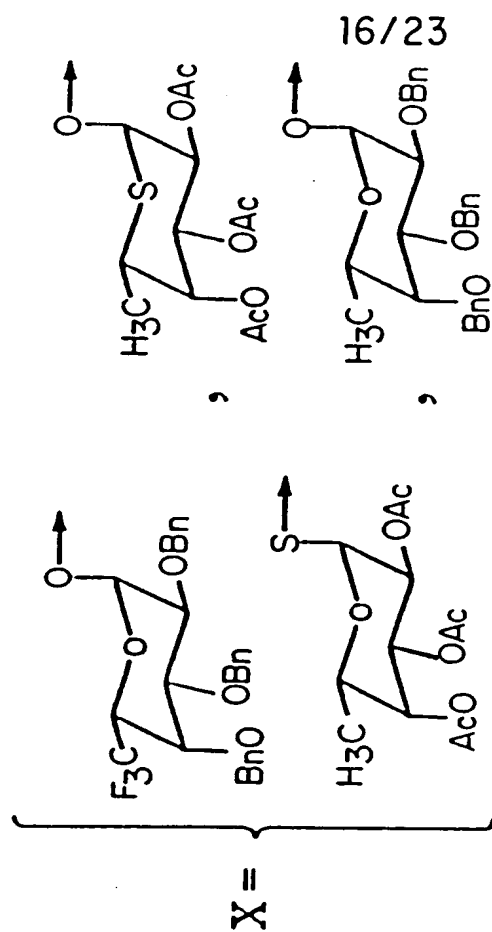


FIG.12B



Scheme VIII. Synthesis of Myeloglycan Mimetics

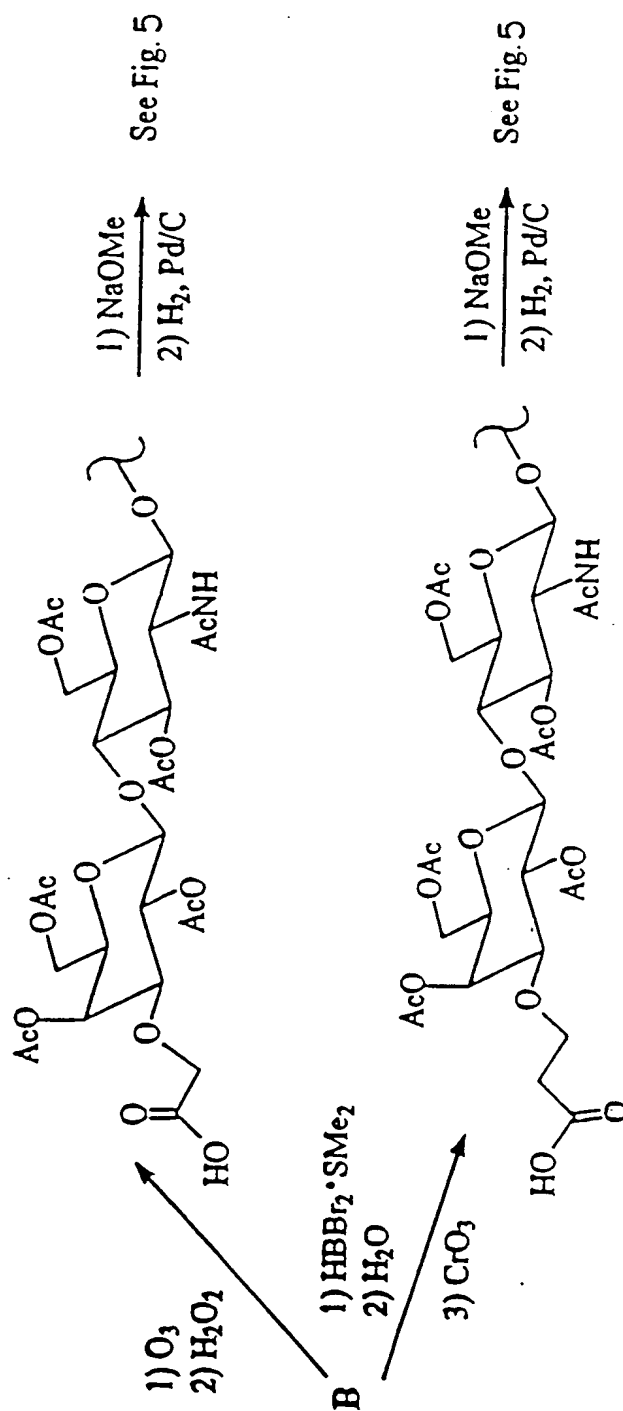
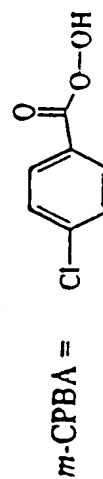


FIG.13A



**FIG. 13B**

Scheme IX. Starburst Structure

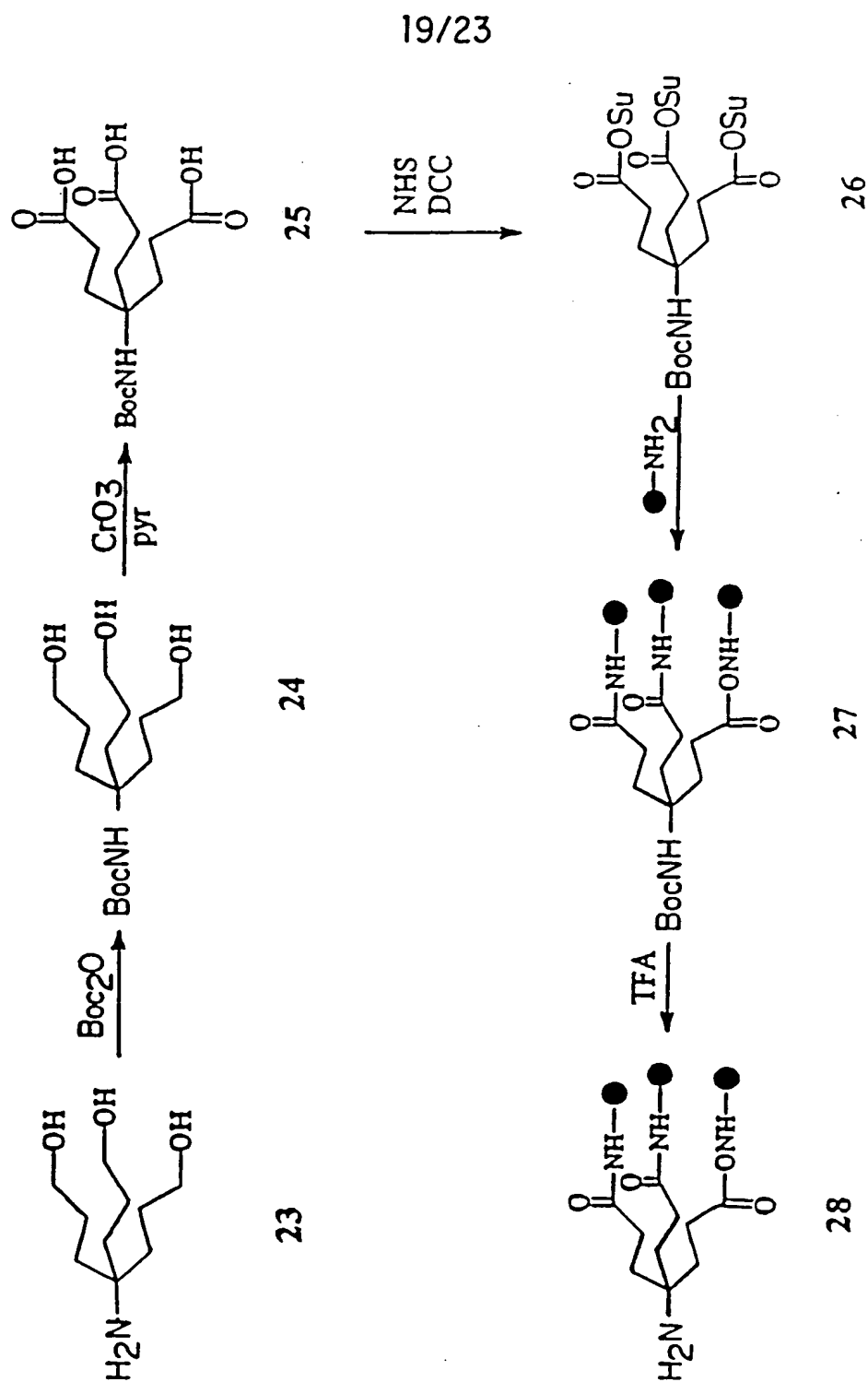
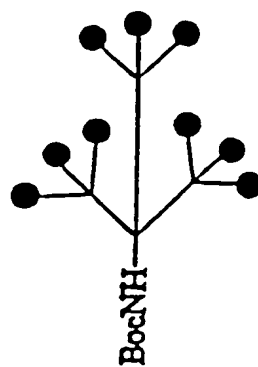
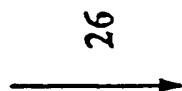


FIG.14A

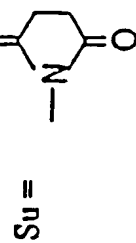
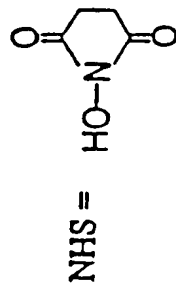
Scheme IX. Starburst Structure

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Boc = *tert*-Butoxycarbonyl



●-NH<sub>2</sub> = Myelloglycan mimetics

FIG.14B

Scheme X. Liposomes

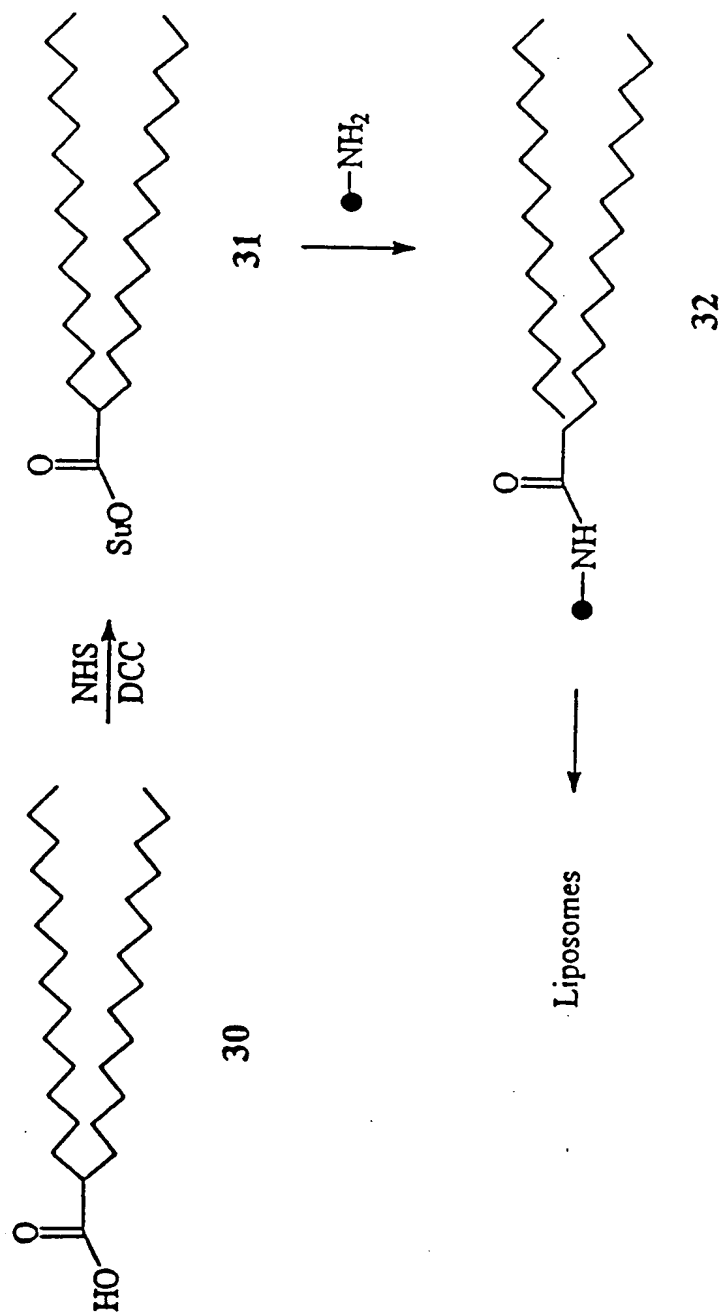


FIG.15A

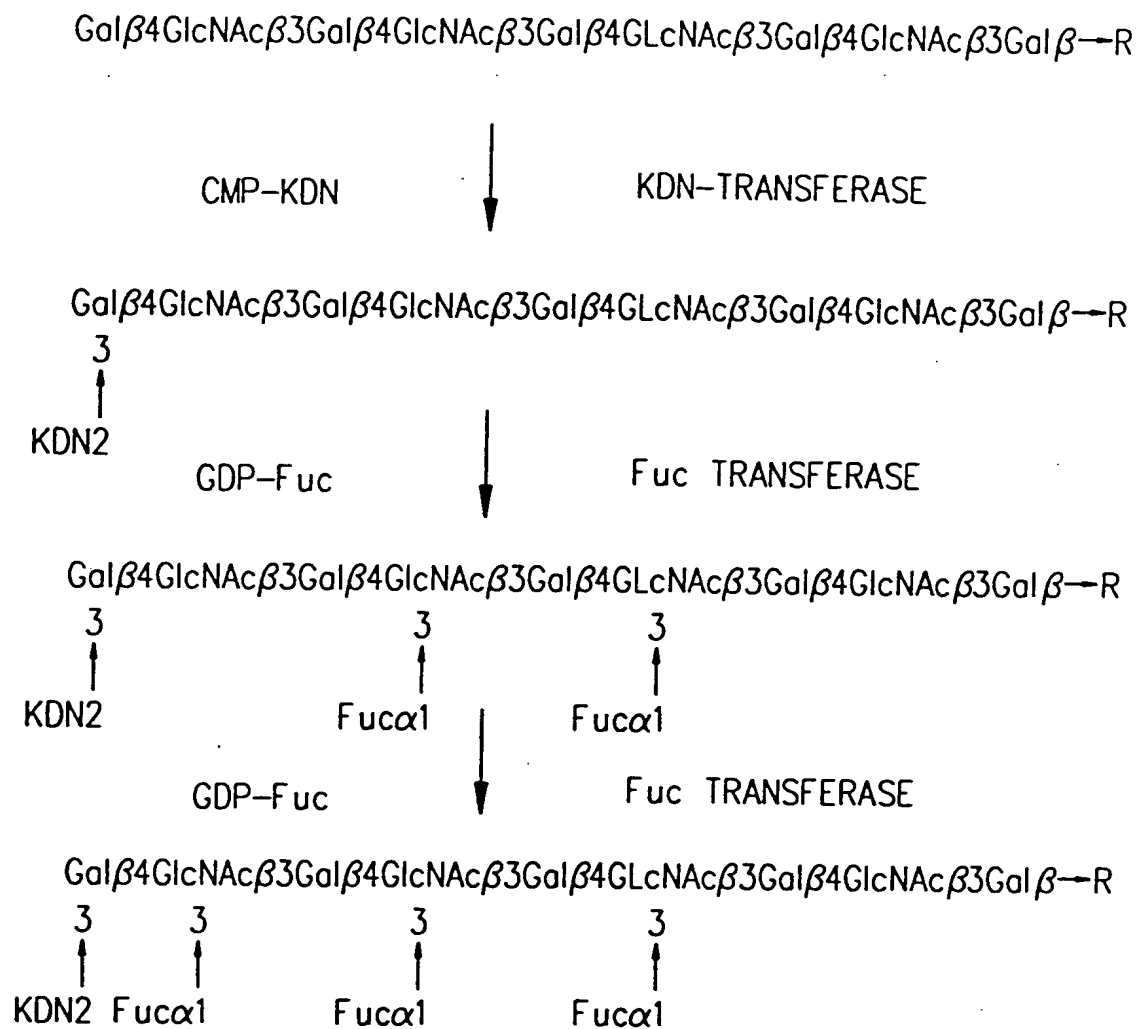
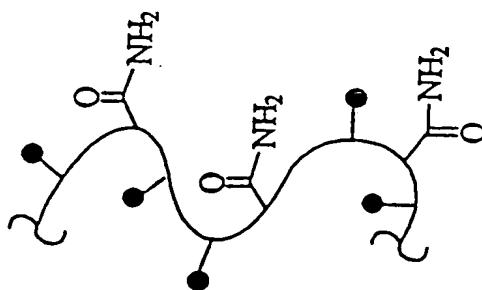
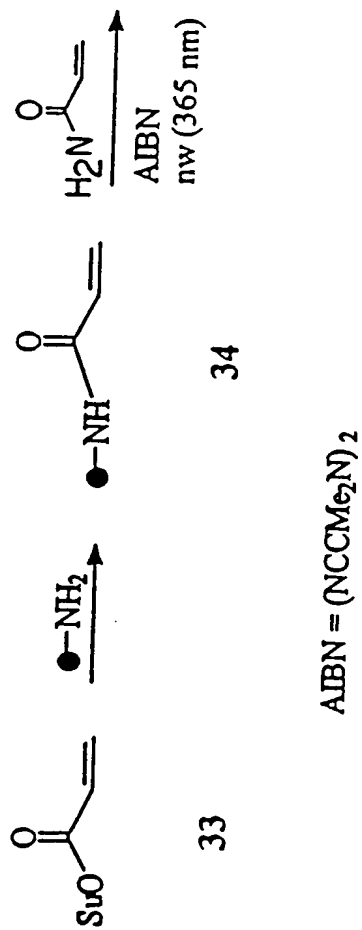


FIG.16

Scheme XI. Polymerization



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FIG. 15B